## ABSTRACT OF DISCLOSURE

The present invention aims to provide a stator iron core of an electric motor which can eliminate the reduction of efficiency, vibration or noise of the electric motor by decreasing stress generated at a bottom portion of a slot on manufacturing or integrating the electric motor. Plural magnetic pole segments, each having a back yoke portion and a teeth portion projected from the back yoke portion, are connected so as to be bendable via a connection portion provided to the back yoke portion. After winding the coil wire, a stator iron core of the electric motor is circularly formed by bending the connection portion of the plural magnetic pole segments. In the stator iron core, the bottom portion of the slot constituted by the back yoke portion and the teeth portion is made to have a curved line after the stator iron core is circularly formed.